Missouri Botanical Garden
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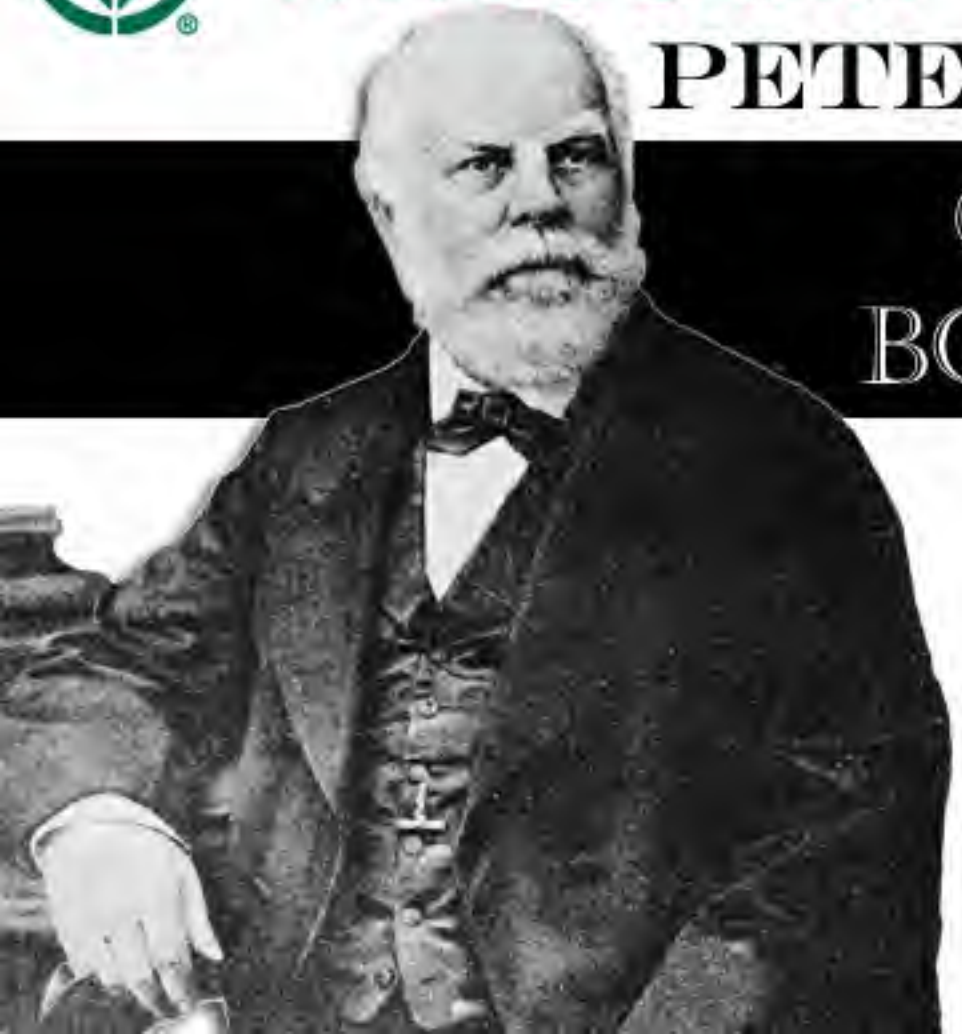
George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Conifers of Bolander's California fieldbooks

1861 Jan 8 110 & 112 Juniperus — San Gabriel, only a bush

Jan 10 125 Juniperus — " 10–12' high

26 136 Pinus — Santa Anna Range 3000–5000' alt. 1–1½' diam

May 6 563 Pinus — conus very large, tree with open habit

21 627 Pinus insignis — Monterey grows 12 inches thick & 8 yrs

annual rings of young plants often reaching 1 inch

25 654 Cupressus macrocarpa — Monterey. wide spreading 6' diam

July 18 770 Libocedrus — 1½–2 feet diam. loose bark Summit of La Costa

791 Juniperus — often 30–35' high Dry hilly near Dia

Sept 25 840 Juniperus * — Top of Mts on Diablo Coast Range

862 Juniperus. — abundant on the mts of Napa valley

863 — San Bernardino.

1862 March 28 911 Juniperus — shrubby 10–15 feet

* J. Calif. Monte Diablo often 30 feet high, but always branching

from base with often 3 feet, rapidly diminishing, & heads

30–40 feet diam — many decaying branches

Sept 9 1361 Juniperus — rocky mesas, by streams, smooth bark, not over 50' high

1366 Pinus — 15–20 feet high, in cañons

Sept 13. 1400 Pinus flexilis " Low shrub Trunk 1' diam — branches prostrate.

9000–9500 feet high Mt Shasta, cones hanging not red. Brown

1401 Pinus nobilis, bark of young trees, less than a foot diam., smooth,

in older ones thick & splitting or cracking in small divisions Exclusively forming

the upper belt of timber on Shasta 6000–6500' to 8000

Pine was 20½ (3' from ground) circumf.

Ascending Mt Shasta: P. Lambertiana 4000–5000 upwards with A. Concolor & A Douglasii

this excludes up to nobilis & ponderosa and above that altogether.

Lambertiana 200–300 feet high 6–7' diam. excellent timber

Libocedrus 4000' alt. (20 feet circumf. bark deeply furrowed.

100–150' high "Cones pendulous every where, decidedly"

1422 " Pinea"

1423 P. ponderosa with plates of thick bark 8–16 inches diam.

1424 Larix of weeping habit in snow

Sept 17 1440 Abies Douglasii

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1862. Sept 26 1459 P. Lambertiana Trinity Mts

1460 Pinus " small tree cones long, Kendalsburn Cone Mountain, Shasta

1461 Abies with Cask, small tree 25-30 feet

Oct 1474 Taxus brevifolia Ravines of the Trinity Mts 20-40' high, but more commonly mere bushes, bark smooth & smaller - splitting into fine shreds & larger trees,

Oct 29. 1478 Abies magnifica? cone large, from Eldorado Co.

Oct 5 1479 Pinus Contorta?. Tomales Point Grant. more exposed to sea winds - bright, shiny, dark green. cones remain long, without opening. 20 years? perhaps 40

1480 Sequoia sempervirens - 8th 8-10 feet diameter

1863 1482 Torreya California 11 feet circumference, 20' high, bark light tan colour - shreddy

June 4 1600. 1601 Sequoia gigantea Calaveras grove

24 1602 Mount Hoffmann 11,000 high - Abies magnifica, Pinus contorta 3 feet diam & more P. flexilis [4-2] a small tree near top, long slender loose one, bark deep red brown in large plates

27 Monopass 10600' P. contorta most common P. flexilis, & a few Balfouriana

28 Mount Dana P. flexilis 11400' high a mere bush P. contorta not quite so high (10,000')

- 29' 1753 Juniper a trailing shrub

July 8 1804 Juniper 10,000' high

1805 Juniper, 9000' high large trees, some 4½' diam.

13 Monopass and about Lyons P. monophylla abundant.

14 Disappears on Meadows of Walker River, where Cedar or dry hills common

1853 Juniper not high, but with large base.

16 1881 P. flexilis 10,000 feet high, Sonora Pass

19 Down Stanislaus River on Pass Snow, Pinus flexilis, P. Balfouriana with red brown bark

Junipers very large 1000 feet below summit, 6' diam., or 10' not tall, 50 or 60 feet - rapidly tapering. bark light brown shreddy

20 1914 P. Jeffreyi (often mistaken before) 4-6' diam, not so high & slender as P. ponderosa - leaves 5-8" sheath at first 1", at last ¼ inch bark dark roughest, not such large plates as ponderosa cones at 12" long, 6-7' wide [open?] 2-3 together and at right angles.

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Coniferae from Brewer's California fieldnotes

1863
July 21st 1917 Juniperus — combined, or in trees 5' diam Sierra
wood red and fragrant, but less than in J. Virgin.
31' 1975 Pin Balfouri — near Big Silver Mountain
Aug 2 2007 Abies Williamsonii grows nearly to same altitude as Pinsapo
small tree, 30–40' high or shrubby, or even 4' diam.
" 2092 A. contorta Cerro Aguto Big trees, every where
2093 Abies magnifica common in the higher Sierras
17' Summit of Carson Pass 8761 feet. A magnifica, P. contorta, Balfouri
Juniperus occidentalis all large and common
28 P. Balfouriana 3 feet diam, even 6 feet & Abies Williamsonii from Scott Valley to Trinity Hill, 8826'
Sept 26 A. Williamsonii on Salmon Peak more abundant than southward
also P. Balf & flex.
Oct 6 Klamath — Tsuga 2 feet circumference
Nov. Crescent City 2200 A. Menziesii abundant immediately on the sea
" underside of leaves silvery" 3' diam — dark green
2206 Juniperus trailing on hills near sea
2207 Pinus tuberculata small tree — 2' high (also a
small grove on east side of Mt Shasta
Smith river, Oregon Redwood of largest dimensions, (exclusively not more than 5 miles from sea island) 58' circumf., many much larger
200 to over 300 feet high

1864
Jan. 28 Mt Silliman Pin Contorta, Balfouriana (Large) A. magnifica
Pin albicaulis (leaves off in 4 or 5's)
2803 Pin flexilis! first time found. near the summit, 3–4' diam.
wood firm, nearly as red as Cedar. bark in square plates deep red brown
persons deeper than in albicaulis — tree seldom over 60' high.
cones 2½ to 4½ inch long
" seed winged" — very distinct from what was taken heretofore for flexilis
June 29 I find on Mt Silliman nobilis mixed with amabilis [magnifica], the
first time I saw it south of Shasta — can not distinguish them
without the cones — Got cones of undoubted nobilis
July 2d Mt Brewer Pin flexilis and albicaulis and other mountains July 24 towards Owens Valley & Tehon Kings & San Joaquin
one flexilis 5' diam (also Contorta not so high) extends on back to 11500 about
12 Seq. gigantea Belt of 4–5 miles wide about 2500' high from Big Meadows
off 3 feet to Visalia
Pin contorta called everywhere Tamarack

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Coniferæ of Montana

G. C. Swallow 1867

from foot to top of mountains

Abies Douglassii the most common Conifera; always ascending; called red fir by lumbermen, diameter double 1 - 1½ diameter rarely to 3 feet — tall, very beautiful

Abies Engelmanii (Menziesii Strobilis parvis.) in deep gorges on the Pacific slope 100 miles west of the main range — very rare — tall (70') slender straight

Abies grandis? (silver fir) on Bald range east of Missouri River

Pinus flexilis (monticola has seven leaves) on the Bald range, only a few trees seen

Pinus albicaulis on all bare rocky tops and slopes exposed localities, never low down, but never in abundance; most at "Highland" main range gathered there for the nuts — called nut pine — seldom, if ever mixed with other pines — Description of tree very good, bark not milk white but like yr P. Strobus, scraggy, rarely 50 feet high — never good timber

Pinus contorta in the cool moist valleys and up the Mountains forming thick dense woods, handy practical valuable timber, hard, reddish; straight, 100'

Pinus ponderosa. Common on the foothills — valuable timber, grows up to where contorta begins sometimes very large 7 feet diam.

Larix

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Canadian Naturalist (Lib. Acad. Sc. Nat. Hist.)

IV. 3. Sept 1869 p. 370

Botany of NW Coast of N America. by Prof J. W. Mark of Pacific College, Forest Grove, Oregon.

Dominant trees are all Conifers

A. Douglasii tallest, oft 300', Diam 9–12 feet sometimes

A. Menziesii thicker, not so high — often 15 feet Diam. said to reach 25' — grows only near the coast

Thuja gigantea said to have sometimes 25' Diam.

Picea nobilis not the largest but the handsomest tree in thick forests, — slender, 2–3' Diam 150' without branches — "head" [Kone?] graceful, 50'

Hemlock, probably distinct from Canadensis [Mertensiana] common near the Coast; 200–250' high 7–9' Diam

Pinus not common [no doubt P. contorta]

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Jardin d'acclimatation, Paris April 9th 1869

Thuyopsis borealis, fine plants from North Europe
Sequoia gigantea the largest I have ever seen
— Sempervivens, not so vigorous —
but pretty large trees in Josh. du Plants
Cephalotaxus Fortunei also in the open
air, but not in fine condition

Makonia, Pyrus Communis & Japonica, Cerasus,
Ficus — bloom;
Forsythia has a second crop (the last of it) — bloom,
the first are just killed.

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April 24 1865 Picea nigra

P. excelsa

Abies Balsam. just in bloom

Tsuga Canadensis just past.

May 7th Pinus sylvestris past

P. Austriaca not yet

P. resinosa in full bloom

P. sestiva ~~not yet~~.

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Notes on Californian trees by Andrew Murray

(Edinburgh. New Philosophical Journal. New series

July 1859 p. 1–8

Continuation April 1860 p. 9–31

on Pines &c

BL Yeast 802

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St Louis Jan 3d 1865

Mr D. Cartan

to Dr Engelmann

to balance of account of	1863	$ 29.–
to medical attendance on family in	1864	76.–
		$ 105.–

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Abies, Plinius, Link

Picea Lin. Don. Loud.

Feb 1836

Picea Plinius, Link — Fichtanne

Abies

Tsuga Link. Conif. 83. (sect Abi)

Abies " " 89 (sect Abi) . Abies Link
Picea Don Loudon
Abies Lindley

Picea " " 112 (sect Abi) Picea Link.
Abies Don, Loudon

Larix 128

Cedrus 135

Pinus 137

Carrière makes all these 6 sections of Link's Genera

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ALEX. LEITCH,
APOTHECARY AND CHEMIST,
Marble Building, cor. 4th and Olive Sts.,
ST. LOUIS, MO.

Pinus Feb 1863

Position of Amenta masculo

Link (Linnea XV) who first divides the Sections or Genera of Pines has:

Pinus: Amenta masculo ad basin ramorum jacentia.

Picea " " " " "

Desiccatus [Tsuga] " " "

Abies in ramis adultis

Larix " in apicibus gemmarum

Cedrus " in apicibus ramorum

Catkins in Coniferae

Tsuga Pinus Tsuga Am. masc. in ram. anni prioris axillaria sparsa

P. Canadensis A.m. nunc in basi ramuli terminalis, nunc ad basin ramulorum strobiliferorum plurima

Abies Diffm. sparsis: A.m. axillaris vel etiam terminalis

P. firma A.m. e gemmis propriis penultimis ex axillis foliorum anni praecedentis

P. Picta " " " " "

Picea P. alba Am. masc. versus apices ramorum adult.

P. Picea " " " " annotina. subopposita

Larix A. m. ex apicibus gemmarum foliiferarum

P. Dahurica A.m. " " gemmarum ovata

Cedrus A. m. in apicibus ramorum

Pinus A.m. lateralis in ruptum ramulorum novellorum parte cogesta,

Cupressus. Abies Versus apicem ramorum annotinorum laterales

Tsuga " " " " laterales et terminales (exc. P. Canadensis)

Larix in apicibus ramulorum gemmarum abbreviatorum

Cedrus " " ramorum (aestate evoluta, per hiemem persistentia)

Picea versus apicem ramorum annotinorum

Pinus ad basin ramorum novellorum s. annotinorum

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Collection of Pinecones

1.	Pinus Sabiniana		California	Dr Wislizenus	
2	P. macrophylla	Engl.	Coniquiriachi	Dr Wislizenus	
3. 4.	P. australis		South Carolina	M A Curtis	
5	P. strobiformis	Engl.	Coniquiriachi	Dr Wislizenus	№ 231
6. 7.	P. flexilis		Santa Fe	Fendler	
8–10	P. Strobus		Niagara Falls	Dr Engelmann	
11–13	P. serotina		South Carolina	M A Curtis	
14	P. pungens		North Carolina	M. A Curtis	
15	the same?		unknown	rec'd from Miss Cleaves	
16. 17.	P. Taeda		South Carolina	M A Curtis	
18. 19.	P. brachyptera	Engl.	Santa Fe	A Fendler	
20–23	" "	"	"	Dr Wislizenus	
24	"	"		Ch Wright	№ 1887
25	"	"		" "	№ 1886
26–30			On the Yellowstone River	Dr F. V. Hayden	
31	P. Chihuahuana	Engl.	Coniquiriachi	Dr Wislizenus	№ 232
32–36	P. inops		Philadelphia	Dr Engelmann	
37–40	P. variabilis		Missouri	" "	
41. 42	" "		"	N. Riehl	
43–45	P. sylvestris		Germany	rec'd from N. Riehl	
46	P. Pumilio ?		Sudetes, in Silesia	Dr Engelmann	
47					
48	P. Leiophylla		Mexico	Dr J. Gregg.	№ 689.6
49	P. Leiophylla		"	" "	№ 821
50	P. Montezumae		"	" "	№ 975
51	P. Chihuahuana			Ch Wright	№ 1888
52. ~~53~~	P. patula		~~Saltillo~~ Victoria, Mexico	Dr J. Gregg	№ 689.2
53. 54	P. Greggii		Saltillo, Mexico	" "	№ 402
55–60	P. edulis	Engelm	Santa Fe	A. Fendler	
61–62	P. osteosperma	Engelm	Saltillo	Dr Gregg	
63	P. Pinea		Italy		
64–66.	P. Douglasii		Santa Fe	A. Fendler	
67	" "			Ch Wright	№ 1885
68. 69	" "		Oregon City	Dr Schannard	

69 an Abraum gesandt

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70.	Pinus Abies Duroi	Germany	Rec'd from M. Richl		
71.	P. concolor Lagleu	Santa Fe	A. Fendler		
72	P. picea Du Roi	Germany	Rec'd from Mrs Cleves		
73-74	P. canadensis Lin	Philadelphia	D. Engelmann		
75-77	Pinus Larix	Germany	Rec'd from M Richl		
78	P. uncinata Ra	Pyrenees	Grisebach		
79	P. Dougl.	(marked B)	California	Fremont	1846
80	P.	(marked C*)	"	"	1846

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